

WO 2005/058021

AG04-046C-PC.txt
SEQUENCE LISTING

<110> Agrinomics, LLC

<120> GENERATION OF PLANTS WITH ALTERED OIL CONTENT

<130> AG04-046C-PC

<150> 60/530,828

<151> 2003-12-17

<160> 4

<170> PatentIn version 3.2

<210> 1

<211> I110

<212> DNA

<213> Arabidopsis thaliana

<400> 1

atggctgact cagtgcagg tcatgtcgcc ggcggagggt tacagggttt ctctgtcgac	60
gccgagtgca tcaagcagcg tgtcgacgag gtttacagt gggttgattc gctttagcat	120
aaactgaaag aagtggagga gtttactcg agcattggtg tctcaaactc tggctctatt	180
ggtaaaagata cagaaaaagg gagacatgtt gtggggatta ggaagattca acaagaggct	240
gcgcgttagag aagctgttgc tgctaaaaga atgcaggacc ttatgcgtca atttggaaaca	300
atcttcgtc agataactca gcataagtgc gcttggccgt ttatgcattc tgtcaatgtt	360
gaaggtcttg gtttgcatac ctactttgag gttattgaca agcctatgga cttcagcacg	420
ataaaaaatc aaatggaggc taaggatggt accgggtaca aacatgtcat gcaaatttat	480
gctgatatgc ggctagtgtt tgagaacgca atgaattata atgaagaaac aagtgtatgtt	540
tactctatgg cgaaaaagtt actggaaaag tttgaggaga agtgggcaca ctttcttcca	600
aagggtcaag aagaggagaa aatacgagag gaagaggaga agcaagcagc aaaggaggcg	660
ctgctagcaa aagaagcatc tcataatcaa acaactagag aattggggaa tgagattgc	720
catgctaattc acgagctgga gaagctaattc cgtaaagttt tgaaaagatg cagaaaaatc	780
acaattgagg agaagcgtaa tattggattt gcattttaa aactgtcacc ggatgtatcta	840
cagaaagtgt tgggtatagt tgctcaggct aaccggactt ttcacacccat agcagagggaa	900
tttagtattt agatggacat actggacgaa ccaacactat ggaggctaaa gttttttgtt	960
aaggatgcgt tggataatgc aatgaagaag aagaaagaag aggagacaaa gactagagaa	1020
tttagtggag cacaaaagaa agaggtttcg aagaaaacgaa atgcgactac aaagtttagct	1080
gagagggaaaa cgaagcgttc acgcatatga	1110

<210> 2

<211> 369

<212> PRT

<213> Arabidopsis thaliana

<400> 2

Met Ala Asp Ser Val Pro Gly His Val Ala Gly Gly Gly Leu Gln Gly

AG04-046C-PC.txt

1	5	10	15
Phe Ser Val Asp Ala Glu Cys Ile Lys Gln Arg Val Asp Glu Val Leu 20 25 30			
Gln Trp Val Asp Ser Leu Glu His Lys Leu Lys Glu Val Glu Glu Phe 35 40 45			
Tyr Ser Ser Ile Gly Val Ser Asn Ser Gly Ser Ile Gly Lys Asp Thr 50 55 60			
Glu Lys Gly Arg His Val Val Gly Ile Arg Lys Ile Gln Gln Glu Ala 65 70 75 80			
Ala Arg Arg Glu Ala Val Ala Ala Lys Arg Met Gln Asp Leu Met Arg 85 90 95			
Gln Phe Gly Thr Ile Phe Arg Gln Ile Thr Gln His Lys Cys Ala Trp 100 105 110			
Pro Phe Met His Pro Val Asn Val Glu Gly Leu Gly Leu His Asp Tyr 115 120 125			
Phe Glu Val Ile Asp Lys Pro Met Asp Phe Ser Thr Ile Lys Asn Gln 130 135 140			
Met Glu Ala Lys Asp Gly Thr Gly Tyr Lys His Val Met Gln Ile Tyr 145 150 155 160			
Ala Asp Met Arg Leu Val Phe Glu Asn Ala Met Asn Tyr Asn Glu Glu 165 170 175			
Thr Ser Asp Val Tyr Ser Met Ala Lys Lys Leu Leu Glu Lys Phe Glu 180 185 190			
Glu Lys Trp Ala His Phe Leu Pro Lys Val Gln Glu Glu Glu Lys Ile 195 200 205			
Arg Glu Glu Glu Glu Lys Gln Ala Ala Lys Glu Ala Leu Leu Ala Lys 210 215 220			
Glu Ala Ser His Ile Lys Thr Thr Arg Glu Leu Gly Asn Glu Ile Cys 225 230 235 240			
His Ala Asn Asp Glu Leu Glu Lys Leu Met Arg Lys Val Val Glu Arg 245 250 255			
Cys Arg Lys Ile Thr Ile Glu Glu Lys Arg Asn Ile Gly Leu Ala Leu 260 265 270			
Leu Lys Leu Ser Pro Asp Asp Leu Gln Lys Val Leu Gly Ile Val Ala			

AG04-046C-PC.txt
275 280 285

Gln Ala Asn Pro Ser Phe Gln Pro Arg Ala Glu Glu Val Ser Ile Glu
290 295 300

Met Asp Ile Leu Asp Glu Pro Thr Leu Trp Arg Leu Lys Phe Phe Val
305 310 315 320

Lys Asp Ala Leu Asp Asn Ala Met Lys Lys Lys Glu Glu Glu Thr
325 330 335

Lys Thr Arg Glu Leu Ser Gly Ala Gln Lys Lys Glu Val Ser Lys Lys
340 345 350

Arg Asn Ala Thr Thr Lys Leu Ala Glu Arg Lys Thr Lys Arg Ser Arg
355 360 365

Ile

<210> 3
<211> 965
<212> DNA
<213> Arabidopsis thaliana

<400> 3		
gccttcatcg gcggcacaac ctgttgctta tctccgatct actccggcga acggcgaaat	60	
tcgagctatg gagaatctaa acggcttagt tcctgacatc cctatacaag agcagaaaaga	120	
caatgctact gcttctgaaa atttcggtgc aagtgttcat gaaatggttg ggaagggttga	180	
tcaagattttag cagagactga atgaggttga gcatttctat tccaataacta gtaaaaaaaca	240	
atcaaacacg ccaagaggtg gctctattct gaaagacaaa gagaaacaga tgtcttagctt	300	
tagaaggcgg cagcaggatg catcacgtag agaaggcagct ggttccagga gaatgcaaga	360	
acttatgcgc caatttggta ctatattacg tcagatcaact cagcacaagt gggcagaacc	420	
ttttatggaa cctgtggatg tcaagggtct tggattacac gattatggat aggttattga	480	
gaagcctatg gacttcagta ctataaaaa caagatggaa gcaaaggatg gttctggcta	540	
taagcatgtc cgagagatat gtgctgacgt gaggctaata tttaagaatg cgatgaaata	600	
caacgaggaa agggatgacg ttcatgtaat ggcggaaaacc ttgttggaa aattcgagga	660	
gaaatggttg cagctttgc ccaaagttga tgaagaggaa aaacggcgaa aggaagagga	720	
agcagaagcc caacaggata tgcagctcgc tcaagaggct gctcatgcaa aaatggcaaa	780	
agatttaact attgagcttgc atgaggttga catcaactg gaagaactca gggacttgg	840	
gcttcagaaaa tgcagaaaaga tttcaacgga agacaggaaa caacttggaa atgcgctcac	900	
taagctgtct cctgacgatc ttaataaagc actattgatt gtggcacaga atgatcctac	960	
ttttc	965	

AG04-046C-PC.txt

<210> 4
<211> 1290
<212> DNA
<213> *Arabidopsis thaliana*

<400> 4
cgagggccg caatggaggg agcgtggccc catccggcgc cgatggagcc gaccaccgcc 60
gcggatgggc ctcaagtgtc ggaggtgaac tcgttccggc gccaggtcga cgaccttcctc 120
tccaagaccg acgtgctgga gaagagggtg aacgaggtgg tagggttcta caattccaag 180
aagcacagca gtggaggccg caaggctggc ggcaggtacg cggaaaacgg tgccaggac 240
agccacggca atggatgcc cgacctcatg cgccagtttg ccggtatcat tcgcccagatt 300
acatctcatg aatgggcaca gccgttttg caaccggtag acgtcgtagg tcttcaactt 360
gatgactatc accagattat aacaaaacct atggatttct cgaccatccg aaacaaaatg 420
gaagggaaagg aaagtaccac atataacagt gtcccgagaaa tatattctga tgtagatta 480
gttttacca atgcaatgaa gtacaatgtt gaaggtcacc ctgttaacat aatggccaag 540
ttcctactcg agagatttga ggagaaaatgg cttcaccttc tccctgaagt tgagaacgag 600
gaaagggAAC gggaggaacc aaatgatgct ccaaccataa gcatttctcc ggaagctgca 660
attgcaaaat tagctgaaga tactggtaat gagctgaatg agattaataa gcagctggag 720
gagctccaga aaatgggtgt tcagagatgc aggaaaatga cgacggacga gaagagaaaa 780
ctcggcgcag gtcttgcca attgtctcca gaagatctt acaaggcgct agagttggtc 840
gcgcaagaca atcctagctt ccaaactaca gctgaagaag tggaccttga catggatgct 900
cagagcgaga cgaccctctg gaggctgaag ttctttgtga gggaaagcatt ggaacaacag 960
gcgaatgtag gcgttagtggc ctgtggcaag atcgatgaaa acacgaagag gagccgcgac 1020
atgtacaatg ctctagccaa gaccgtttcg aaacggatta agagataacc ttagcggctc 1080
ggccttctg atggttcatg gtatttctgt agaaaatagg gccatgttct cccttgttg 1140
aagacatgtt gtatatatac gaagatgaat ctgcactaag atatgcttgg tcgcacccgg 1200
tctcatgtgg catgggttagc atgctattgg tagctatgta aaataaagag caatgttgaa 1260
cacctctgag aaacaagaat tattccttga 1290